



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475 • FAX: (304) 926-0479

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

April 21, 2017

Robert L. Cline, VP of Operations
Greenbrier Minerals, LLC
PO Box 446
Man, WV 25635

Re: Application Status: Approved
Greenbrier Minerals, LLC
Toney Fork Surface Mine
Registration Application G40-C082
Plant ID No. 045-00149

Dear Mr. Cline:

Your application for a General Permit G40-C registration to construct a rock crushing and screening plant as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G40-C082 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

A copy of the complete General Permit G40-C may be obtained from the DAQ's website at the following address: <http://www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx>.

As a result of this permit, the source is a nonmajor source or area subject to 45CSR30. Therefore, the facility is not subject to the permitting requirements of 45CSR30 and is classified as a deferred source.

In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued,

modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions, please contact me at (304) 926-0499, ext. 1210.

Sincerely,



Daniel P. Roberts, Engineer Trainee
NSR Permitting Section

Enclosures

c: Robert L. Cline, robert.cline@coronadous.com
Leslie Lavender, leslie.lavender@coronadous.com
Donna Toler, donnatoler@suddenlink.net

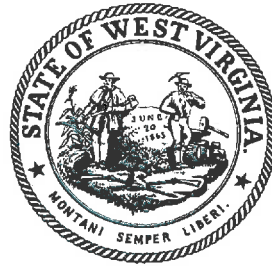
West Virginia Department of Environmental Protection

Division of Air Quality

*Jim Justice
Governor*

*Austin Caperton
Cabinet Secretary*

Class II General Permit G40-C Registration to Construct



for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation,
Administrative Update and Operation of
Nonmetallic Mineral Processing Plants

*The permittee identified at the facility listed below is authorized to
construct the stationary sources of air pollutants identified herein in accordance
with all terms and conditions of General Permit G40-C.*

G40-C082

Issued to:

**Greenbrier Minerals, LLC
Toney Fork Surface Mine
045-00149**



William F. Durham
Director

Effective: April 21, 2017

This Class II General Permit Registration will not affect any current permits or General Permit registrations.

Greenbrier Minerals, LLC does have existing General Permit registrations G10-D164 for a raw coal screening plant and G60-C079 for an emergency generator. The proposed rock crushing and screening plant (G40-C082), existing raw coal screening plant (G10-D164) and existing emergency generator (G60-C079) are located on the contiguous or adjacent property and will share a common facility ID number of 045-00149. The proposed rock crushing and screening plant is considered a support facility for the existing raw coal screening plant since the rock that is being crushed will be used in maintaining the haulroads used to transport the raw coal from the surface mine.

Facility Location: Lorado, Logan County, West Virginia
Mailing Address: PO Box 446 Man, WV 25635
Facility Description: Nonmetallic Minerals Processing Plant
SIC Code: 1221 (Bituminous Coal and Lignite - Surface)
NAICS Code: 212111 (Bituminous Coal and Lignite Surface Mining)
UTM Coordinates: Easting: 435.91631 km Northing: 4185.32310 km NAD83 Zone 17N
Lat/Lon Coordinates: Latitude: 38.028131 Longitude: -81.252131 NAD83
Registration Type: Construction
Description of Change: Construction of a Powerscreen Premiertrak 400 Jaw Crusher rock crushing and screening plant powered by a Caterpillar C9 ACERT 194kW (260 hp) engine E1 manufactured in 2015. Engine E1 is EU Stage IIIA / US Tier 3 certified. This 400 TPH and 640,000 TPY rock crushing and screening plant will be used to produce sized rock for drainage ditches and road repair.

Subject to 40CFR60 Subpart OOO? Yes

Subject to 40CFR60 Subpart IIII? Yes

Subject to 40CFR60 Subpart JJJJ? No

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

As a result of this permit, the source is a nonmajor source or area subject to 45CSR30. Therefore, the facility is not subject to the permitting requirements of 45CSR30 and is classified as a deferred source.

All registered facilities under Class II General Permit G40-C are subject to Sections 1.0, 1.1, 2.0, 3.0, and 4.0.

The following sections of Class II General Permit G40-C apply to the registrant:

- Section 5 Nonmetallic Mineral Processing Operations
- Section 6 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification after August 31, 1983 but before April 22, 2008 (40 CFR 60 Subpart OOO)
- Section 7 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification on or after April 22, 2008. (40 CFR 60 Subpart OOO)
- Section 8 Reciprocating Internal Combustion Engines (R.I.C.E.)
- Section 9 Tanks
- Section 10 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart III)
- Section 11 Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60 Subpart JJJJ)

Emission Units

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G40-C Applicable Sections ²	Emission Unit Description	Maximum Permitted Throughput		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Equipment ³
BS-01	C 2015	5 and 8	Front-end Loader Dump Bin - 15 tons capacity - receives material from the overburden area via a front-end loader and feeds in onto BC-01	400	640,000	PW	B A	TP-01 TP-02	UD-PW TC-PE
BC-01	C 2015	5 and 8	Belt Conveyor - receives raw material from BS-01 and transfers it to CR-01	400	640,000	NC	B A	TP-02 TP-03	TC-PE TC-FE
CR-01	C 2015	5 and 8	Jaw Crusher - receives raw material from BC-01, crushes it from/to 4" x 0 and then drops it onto BC-02	400	640,000	FE	B A	TP-03 TP-04	TC-FE TC-FW
BC-02	C 2015	5 and 8	Belt Conveyor - receives crushed material from CR-01 and transfers it to SS-01	400	640,000	NC	B A	TP-04 TP-05	TC-FW TC-PW
SS-01	C 2015	5 and 8	Double Deck Screen - receives crushed rock from BC-02, classifies it and 3" rock drops onto BC-03, 2" rock drops onto BC-04 and <2" rock drops onto BC-05	400	640,000	PW	B A A A	TP-05 TP-06 TP-09 TP-12	TC-PW TC-FE TC-FE TC-FE
BC-03	C 2015	5 and 8	Belt Conveyor - receives 3" sized rock from SS-01 and transfers it onto OS-01	400	640,000	NC	B A	TP-06 TP-07	TC-FE TC-MDH
OS-01	C 2015	5 and 8	3" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft ² base area, and 20' height - receives 3" sized rock from BC-03, stores it and then a front-end loader reclaims it and loads it to trucks	400	640,000	WS	B A	TP-07 TP-08	TC-MDH LO-MDH
BC-04	C 2015	5 and 8	Belt Conveyor - receives 2" sized rock from SS-01 and transfers it onto OS-02	400	640,000	NC	B A	TP-09 TP-10	TC-FE TC-MDH
OS-02	C 2015	5 and 8	2" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft ² base area, and 20' height - receives 2" sized rock from BC-04, stores it and then a front-end loader reclaims it and loads it to trucks	400	640,000	WS	B A	TP-10 TP-11	TC-MDH LO-MDH
BC-05	C 2015	5 and 8	Belt Conveyor - receives <2" sized rock from SS-01 and transfers it onto OS-03	400	640,000	NC	B A	TP-12 TP-13	TC-FE TC-MDH

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G40-C Applicable Sections ²	Emission Unit Description	Maximum Permitted Throughput		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Equipment ³
OS-03	C 2015	5 and 8	<2" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft ² base area, and 20' height - receives -2" sized rock from BC-05, stores it and then a front-end loader reclaims it and loads it to trucks	400	640,000	WS	B A	TP-13 TP-14	TC-MDH LO-MDH

- ¹ In accordance with 40 CFR 60 Subpart OOO, for affected facilities constructed, re-constructed or modified after April 22, 2008, visible emissions from any screen, transfer point on a belt conveyor, storage bin or from any other affected facility shall not exceed seven percent (7%) opacity and any crusher shall not exceed twelve percent (12%) opacity.
- ² All registered affected facilities under Class II General Permit G40-C are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.
- ³ Control Device Abbreviations: FE - Full Enclosure; FW - Full Enclosure with Water Sprays; PE - Partial Enclosure; PW - Partial Enclosure with Water Sprays; WS - Water Sprays; TC - Telescopic Chute; UC - Under-pile Conveyor; MDH - Minimize Drop Height; and NC - No Control.

Emission Limitations

- Proposed Emissions - Greenbrier Minerals, LLC Toney Fork Surface Mine Rock Crushing and Screening Plant	Maximum Controlled PM Emissions		Maximum Controlled PM ₁₀ Emissions	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	0.04	0.16	0.02	0.08
Unpaved Haulroad Emissions	57.51	46.01	12.10	9.68
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
<i>Fugitive Emissions Total</i>	<i>57.54</i>	<i>46.17</i>	<i>12.12</i>	<i>9.76</i>
Point Source Emissions				
Crushing/Screening Emissions	2.58	2.06	1.23	0.98
Transfer Point Emissions	0.02	0.01	0.01	0.01
Engine E1	0.09	0.07	0.09	0.07
<i>Point Source Emissions Total (PTE)</i>	<i>2.69</i>	<i>2.14</i>	<i>1.33</i>	<i>1.06</i>
FACILITY EMISSIONS TOTAL	60.23	48.31	13.45	10.81

Engines

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
E1	Engine	Nitrogen Oxides (NO _x)	1.28	1.02
		Carbon Monoxide (CO)	1.50	1.20
		Volatile Organic Compounds (VOCs)	0.43	0.38
		Sulfur Dioxide (SO ₂)	0.53	0.43
		Particulate Matter (PM<10 microns)	0.09	0.07
		Total HAP	0.0077	0.0062

Reciprocating Internal Combustion Engines

Emission Unit ID No.	Emission Unit Description (Make, Model, Serial No., etc.)	Date of Manufacture	Date of Installation	Design Capacity (Bhp/rpm)
E1	Caterpillar C9 ACERT 194 kW (260 hp)	2015	2016	260 / 1,600

Reciprocating Internal Combustion Engines (R.I.C.E.) Information

Emission Unit ID No.	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 9.1.4/9.2.1 (Catalytic Reduction Device)
E1	Yes	No	No

Control Devices - *Not Applicable*

Control Device ID No.	Source ID No.	Date Constructed, Reconstructed, or Modified	Emission Unit Description (Make, Model, Serial No., etc.)

Storage Tanks

Source ID No.	Status	Content	Design Capacity			Orientation	G40-C Applicable Section(s)
			Volume	Diameter	Throughput		
T1	Existing	Diesel	1,000 gal	4'	8,000 gal/hr	Horizontal	9